

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>( Not for submission under 37 CFR 1.99)</i>	Application Number		10725904
	Filing Date		2003-12-01
	First Named Inventor		Walton
	Art Unit		2616
	Examiner Name		JAIN, RAJ K
	Attorney Docket Number		030412

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	4750198		1988-06-07	Harper	
	2	5509003		1996-04-16	Snijders et al.	
	3	5982327		1999-11-09	Vook et al.	
	4	6351499		2002-02-26	Paulraj et al.	
	5	6363267		2002-03-26	Lindskog et al.	
	6	6731668		2004-05-04	Ketchum	
	7	6940917		2005-09-06	Menon et al.	
	8	7006464		2006-02-28	Gopalakrishnan et al.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <small>( Not for submission under 37 CFR 1.99)</small>	Application Number		10725904
	Filing Date		2003-12-01
	First Named Inventor		Walton
	Art Unit		2616
	Examiner Name		JAIN, RAJ K
	Attorney Docket Number		030412

9	7095709		2006-08-22	Walton et al.	
10	7164669		2007-01-16	Li et al.	

If you wish to add additional U.S. Patent citation information please click the Add button.

#### U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20020154705		2002-10-24	Walton et al.	
	2	20030125040		2003-07-03	Walton et al.	
	3	20040042556		2004-03-04	Medvedev et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

#### FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T5
	1	0755090	EP		1997-01-22	Nortel Networks Ltd.		<input type="checkbox"/>
	2	1170879	EP		2002-01-09	Matsushita Electric Industrial Co., Ltd.		<input type="checkbox"/>

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>( Not for submission under 37 CFR 1.99)</i>		Application Number		10725904	
		Filing Date		2003-12-01	
		First Named Inventor		Walton	
		Art Unit		2616	
		Examiner Name		JAIN, RAJ K	
		Attorney Docket Number		030412	

3	1207635	EP		2002-05-22	Lucent Technologies Inc.		<input type="checkbox"/>
4	2300337	GB		1996-10-30	ERICSSON Ge MOBILE COMMUNICATIONS INC		<input type="checkbox"/>
5	2006-0095576	KR		2006-08-31	Qualcomm, Inc.		<input type="checkbox"/>
6	2201034	RU		2003-03-20	TELEFONAKTIEBOLAG ET LM EHRIKSSON		<input type="checkbox"/>
7	01076110	WO		2001-10-11	Qualcomm, Inc.		<input type="checkbox"/>
8	02025853	WO		2002-03-28	IOSPAN Wireless, Inc.		<input type="checkbox"/>
9	0207821.1	WO		2002-10-03	Qualcomm, Inc.		<input type="checkbox"/>
10	03019984	WO		2003-03-06	Commissariat a L'Energie Atomique		<input type="checkbox"/>
11	95030316	WO		1995-11-09	Motorola Inc.		<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

#### NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
--------------------	---------	---	----

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Not for submission under 37 CFR 1.99)</i>		Application Number	10725904
		Filing Date	2003-12-01
		First Named Inventor	Walton
		Art Unit	2616
		Examiner Name	JAIN, RAJ K
		Attorney Docket Number	030412

	1	INTERNATIONAL SEARCH REPORT-PCT/US04/038198; INTERNATIONAL SEARCH AUTHORITY-EUROPEAN PATENT OFFICE, 04/04/05	<input type="checkbox"/>
	2	ALAMOUTI, S.M., "A Simple Transmit Diversity Technique for Wireless Communications," IEEE Journal on Select Areas in Communications, Vol. 16, No.8, October 1998, pgs.1451-1458	<input type="checkbox"/>
	3	CHEN et al., "Novel Space-Time Processing of DS/CDMA Multipath Signal," IEEE 49th, Vehicular Technology Conference, Houston, Texas, May 16-20, 1999, pgs. 1809-1813	<input type="checkbox"/>
	4	CHOI et al., "MIMO Transmit Optimization for Wireless Communication Systems," Proceedings of the First IEEE International workshops on Electronic Design, Piscataway, New Jersey, January 29-31.(2002)	<input type="checkbox"/>
	5	FUJII MASAAKI, "Pseudo Orthogonal Multibeam Time Transmit Diversity for OFDM-CDMA" pgs.222-226	<input type="checkbox"/>
	6	HAUSTEIN et al., "Performance of MIMO Systems with Channel Inversion," IEEE 55th, Vehicular Technology Conference, Birmingham, Alabama, May 6-9 (2002), pgs. 35-39	<input type="checkbox"/>
	7	HONG et al., "Robust Frequency Offset Estimation for Pilot Symbol Assisted Packet CDMA with MIMO Antenna Systems," IEEE Communications Letters, vol. 6, no. 6:262-264 (June 2002)	<input type="checkbox"/>
	8	JOHAM et al., "Symbol Rate Processing for the Downlink of DS-CDMA Systems", IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, IEEE SERVICE CENTER, PISCATAWAY, US, vol. 19, no. 1, 1 January 2001 (2001-01-01), XP011055296, ISSN: 0733-8716, paragraphs 1, 2, 4, 5.	<input type="checkbox"/>
	9	PAUTLER et al., "On Application of Multiple-Input Multiple-Output Antennas to CDMA Cellular Systems," IEEE 54th, Vehicular Technology Conference Proceedings, Atlantic City, New Jersey, October 7-11 (2001), pgs. 1508-1512	<input type="checkbox"/>
	10	TARIGHAT et al., "Performance analysis of different algorithms for cdma2000 antenna array system and a new multi user beamforming (MUB) algorithm", WIRELESS COMMUNICATIONS AND NETWORKING CONFERENCE, 2000. WCNC. 2000 IEEE E 23-28 SEPTEMBER 2000, PISCATAWAY, NJ, USA, IEEE, vol.1, 23 September 2000 (2000-09-23), pages 409-414. XP010532534. ISBN: 978-0-7803-6596-4. Paragraphs 2, 3.	<input type="checkbox"/>
	11	THEON et al., "Improved Adaptive Downlink for OFDM/SDMA-Based Wireless Networks," IEEE VTS 53rd, Vehicular Technology Conference, Rhodes, Greece, May 6-9, (2001)	<input type="checkbox"/>

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>( Not for submission under 37 CFR 1.99)</i>	Application Number	10725904
	Filing Date	2003-12-01
	First Named Inventor	Walton
	Art Unit	2616
	Examiner Name	JAIN, RAJ K
	Attorney Docket Number	030412

12	TUJKOVIC, "High bandwidth efficiency space-time turbo coded modulation", Institute of Electrical and Electronics Engineers, ICC 2001. 2001 IEEE International Conference on Communications, Conference Record., Helsinki, Finland, June 11-14, 2001, IEEE International Conference on Communications, New York , NY: IEEE, US, vol. 1 of 10, 11 June 2001 (2001-06-11), pgs 1104-1109, XP010553500	<input type="checkbox"/>
13	ZELST et al., "Space Division Multiplexing (SDM) for OFDM Systems," IEEE 51st, Vehicular Technology Conference Proceedings, Tokyo, Japan, May 15-18 (2000)	<input type="checkbox"/>
14	IEEE 802.11a, "Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: High-Speed physical Layer in the 5GHZ Band", September 1999	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

#### EXAMINER SIGNATURE

Examiner Signature	Date Considered
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	
<small><sup>1</sup> See Kind Codes of USPTO Patent Documents at <a href="http://www.USPTO.GOV">www.USPTO.GOV</a> or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.</small>	